

SOV/130-59-2-11/17

Short Flame High-Pressure Atomisers

or cleaned. The design of the combustion chambers was also modified (Fig 3), the size being increased mainly at the expense of the outer wall thickness. The supply of air from the regenerator to the combustion chamber was also increased by widening the duct from 236 x 354 mm to 400 x 600 mm. These modifications enabled the furnaces to work efficiently with an intake of 1000 kilos of oil per hour. The original atomisers entered the furnace ports to a depth of 350 mm and it was necessary to maintain a small flow of steam through the nozzles in order to prevent them from becoming scorched, even when no oil was being burnt. This procedure unavoidably lowered the heat within the furnace and was detrimental to the lining of the walls, apart from causing oxidation of metal and wastage of steam. The modified atomisers enter the furnace ports to a depth of only 25 mm and are mounted at an angle to give better distribution of heat. When not in use, they can be easily withdrawn from the port and therefore do not require additional steam cooling at such times.

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Short Flame High-Pressure Atomisers

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The ports in the furnace walls can then be closed by means of cover plates (as shown in Fig 3 insert). The advantages of the modified atomisers can be summarised as follows:- a) efficient combustion of oil; b) 2.5 times less consumption of steam; c) satisfactory performance with steam pressures at 2.5 to 3 atm; d) 5 times lower cost of atomisers; e) simplification of fitting and maintenance. In view of these advantages, it is intended to equip many additional furnaces with such atomisers, which by being capable of producing 13 million k calories per hour will enable the required temperatures to be attained rapidly, with an increase of 15 to 20% in productivity, whilst using crude oil for a total time of only 12 hours per day. There are 5 figures.

ASSOCIATION: Laboratoriya Metallurgicheskoy Teplotekhniki MMK  
(Laboratory of Metallurgical Thermal Engineering MMK)

Card 5/5

YESIPOV, V.D.

Mounting injectors with tangential steam supply for the atomization  
of crude oil in box furnaces. Sbor.rats.predl.vnedr.v proizv.  
no.2:35'61. (MIRA 14:7)

1. Magnitorgorskiy metallurgicheskiy kombinat.  
(Furnaces, Heating)

66729

SOV/20-129-2-14/66

3.1230

23(3) AUTHORS: Volkov, I. V., Yesipov, V. F., Shcheglov, P. V.

TITLE: The Use of the Contact Photography Principle in Studying Weak Light Fluxes

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 2, pp 288-289  
(USSR)

ABSTRACT: The solution of some astronomical and geophysical problems makes it necessary to investigate the spectra of objects with low light intensity. One of the methods for intensifying the images is the use of electron-optical transformers. When using the conventional electron-optical transformers the image is projected by means of an optical system from the screen of the device to the photoemulsion. In this case, however, also objects with highest light intensity collect at maximum only 10% of the light emitted by the screen. To fully utilize the light, the photoemulsion must be brought into optical contact with the fluorescing screen of the transformer. In order to maintain the high resolving power of the device, the distance between screen and emulsion must be very small. V. I. Krasovskiy (Ref 4) was the first to use electron-optical transformers for contact photography. In 1958 a perfect device for contact photography of weakly luminous objects.

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The Use of the Contact Photography Principle in  
Studying Weak Light Fluxes

SOV/20-129-2-14/66

the photo contact tube, was developed. It consists of a vacuum balloon into which a semi-transparent photocathode, an electron-optical device and a fluorescing screen are mounted. The latter was applied to a 20 to  $30\mu$  thick mica plate (forming the back wall of the device). The photoemulsion is pressed to this plate. The vacuum in the device is maintained for a long period. To produce an optical contact between the photoemulsion and the mica plate (to which the screen is attached) an immersion medium with a refractive index close to that of mica is used. The photoemulsion applied to an elastic base (cinematographic film) was mechanically pressed to the screen. The photo contact tube with an oxygen-cesium photocathode was used for photographing the spectra of the night sky luminescence in the spectral range 0.8 -  $1.2\mu$ . In this connection a spectrograph of the type SP-50 was used which was directed at an angle of  $30^{\circ}$  to the northern horizon. The photographs were taken on a DN film. Exposure was 4 hours and not even traces of a cold emission were found in this case. One illustration shows the spectra of the night sky luminescence in the range 0.9 and  $1.0\mu$ . A comparison of the

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The Use of the Contact Photography Principle in  
Studying Weak Light Fluxes

SOV/20-129-2-14/66

spectra of the night sky which were taken by means of a photo contact tube and a conventional electron-optical transformer with projecting optical systems showed that contact photography has a sensitivity by ten times higher. The resolving power of the photo contact tube is approximately 20 grades per millimeter. Photo contact tubes with a 10 mm long screen may be produced. Such a screen size is sufficient for a number of spectroscopical investigations. There are 1 figure and 5 references, 3 of which are Soviet.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut im. P. K. Shternberga  
(State Astronomical Institute imeni P. K. Shternberg) *4*

PRESENTED: July 13, 1959, by A. I. Berg, Academician

SUBMITTED: July 6, 1959

Card 3/3

SHCHEGLOV, P.V.; YESIPOV, V.F.

Diameter of the pupil in the adapted eye. Priroda 49 no.9:108 S  
'60. (MIRA 13:10)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.  
(Pupil (Eye))

83447

3,2400

8/035/60/000/007/018/018  
A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Gеodeziya, 1960, No. 7.  
p. 113, # 6784

AUTHORS: Yesipov, V.F., Moroz, V.I.

TITLE: An Artificial Comet

PERIODICAL: Astron. tsirkulyar, 1959, okt. 15, №. 205, p. 1

TEXT: ✓ On September 12, 1959, an artificial comet formed by the clouds of sodium vapors ejected from the second Soviet cosmic rocket was visually and photographically observed with electronic telescopes at Byurakan and Stalinabad. Fourteen photographs with 1-sec exposures were taken in Byurakan and thirteen photographs with 5-sec exposures were taken in Stalinabad. The sodium cloud was observed for about 4<sup>m</sup>. It emerged in the form of a bright point the luminosity of which increased rapidly. At the end of the observations the cloud had a shape of a ring whose brightness decreased with increasing diameter. The speed of expansion of the cloud was of the order of 2 km/sec, the diameter at

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83447

S/035/60/000/007/018/018  
A001/A001

An Artificial Comet

the observation end was 1,200 km. Photographs of the successive stages of the expansion of the sodium cloud are presented.

V.P. Fedorovich

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

S/033/60/037/03/023/027  
E032/E514

AUTHOR: Yesipov, V. F.

TITLE: On the Photography of Stars with the Aid of an Image  
Converting Telescope

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol 37, Nr 3,  
pp 588-589 + 1 plate (USSR)

ABSTRACT: In October, 1959 photographs of stars were obtained at the Crimean Observatory using an image converting device with a contact tube. The instrument was mounted in the Cassegrain focus of the 13" telescope ( $d/f = 1/15$ ). Photographs were obtained in the region of the hPer cluster (NGC 869). A contact tube with a Sb-Cs photocathode was employed. Pre-exposed films of type DN were used. Fig 1 shows one of the obtained photographs. The exposure was 10 sec and the field was 5' (the weakest stars are  $13^m - 13.5^m$ ). The total gain obtained in this way as compared with direct photography on the same film was found to be 30-40. Fig 2 shows the Fabry-Perot interference pattern obtained with the contact tube using the  $\lambda 5570 \text{ \AA}$  crypton line. The disadvantage of the device

Card 1/2

✓B

S/033/60/037/03/023/027  
E032/E514

On the Photography of Stars with the Aid of an Image Converting  
Telescope

is that it has a very small working field. Acknowledgment  
is made to the Department of Physics of Nebulae,  
Crimean Observatory and to P. V. Shcheglov for assistance  
in the experiments.

There are 2 figures and 5 references, 2 of which are  
Soviet, 1 French and 2 English.

ASSOCIATION: Gos. astronomicheskiy institut imeni P. K. Shternberga  
(State Astronomical Institute imeni P. K. Shternberg)

SUBMITTED: January 7, 1960

Card 2/2

✓B

87262

S/033/60/037/006/021/022  
E032/E51<sup>4</sup>

235000

AUTHOR:

Vesipov, V. F.

TITLE:

Methods of Increasing the Sensitivity of Photographic Emulsions Used in Long-Exposure Photography

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol.37, No.6,  
pp. 1102-1106

TEXT: A study was made of the possible use of preliminary brief illumination and heating on the resistivity of various emulsions in the case of prolonged exposures. Soviet high-sensitivity emulsions of type ΔH (DN), special astronomical emulsions for long exposures, emulsions of type 103a D and 103a F and British emulsions OaO, OaD and OaF were investigated. The preliminary illumination was 1/25th of a second to a density of 0.2 to 0.3 above fog. According to Burton (Ref.6) and Mulyarchik and Petrova (Ref.9) these are optimum conditions. The preliminary illuminations were carried out with the aid of a simple lamp-and-shutter arrangement, which enabled the exposure to be varied between 1/25th-1/100th sec. Before the exposure, the photoemulsions were heated in a thermostat to a temperature of  $60^\circ \pm 1^\circ\text{C}$  for between

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8726 2  
S/033/60/037/006/021/022  
E032/E514

✓

**Methods of Increasing the Sensitivity of Photographic Emulsions  
Used in Long-Exposure Photography**

3 and 24 hours. All the materials were then developed under identical conditions in an Agfa-12 developer for 40 min at 20°C. According to published data (Broun and Gol'denberg, Ref.7) these are again optimum conditions. The following table gives relative sensitivities of the above photographic emulsions for 1 hour long exposures.

Type of emulsion

Relative sensitivity corresponding to a density of 0.2  
above fog.      Sensitized by  
Unsensitized      Illumina-      Heating  
                            tion

| DN                                |             | 1   | 2   | 1   |
|-----------------------------------|-------------|-----|-----|-----|
| Astronomical with $\lambda_{lim}$ | 600 m $\mu$ | 0.9 | 1.4 | 3.2 |
| ditto.                            | 660 m $\mu$ | 2   | 3   | -   |
| ditto.                            | 700 m $\mu$ | 0.8 | 5   | 2.7 |
| 103a F                            |             | 2.2 | 4.8 | 3.6 |
| 103a D                            |             | 4   | 5.3 | 8   |
| OaO                               |             | 1.1 | 2.2 | 2.5 |
| OaD                               |             | 2.2 | 4.2 | 3.6 |
| Card 2/3                          | OaF         | 1.4 | 2   | 2.5 |

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S/033/60/037/006/021/022  
E032/E514

Methods of Increasing the Sensitivity of Photographic Emulsions  
Used in Long-Exposure Photography

In the above table the sensitivity of the unsensitized DN emulsion  
corresponding to a density of 0.2 above fog, was taken as unity.  
Acknowledgments are expressed to P. V. Shcheglov for valuable  
suggestions. There are 5 figures, 1 table and 12 references;  
5 Soviet and 7 non-Soviet.

ASSOCIATION: Gos. astronomicheskiy in-t imeni P. K. Shternberga  
(State Astronomical Institute imeni P. K. Shternberg)

SUBMITTED: April 8, 1960

Card 3/3

9,4170 (2801,3005)

21491  
S/020/61/137/004/015/031  
B104/B206

3,1510 (1062,1166 ONLY)

AUTHORS: Volkov, I. V., Yesipov, V. F., and Shcheglov, P. V.

TITLE: Contact image-amplifier for the red spectral range

PERIODICAL: Doklady Akademii nauk SSSR, v. 137, no. 4, 1961, 840

TEXT: As known, the production of image amplifiers in the red spectral range is difficult owing to the low sensitivity of the classical photocathodes in this range. In 1959-1960 the authors made experiments with bismuth-cesium- and multi-alkali photocathodes. Characteristic for the multi-alkali photocathodes is their relatively far red boundary for very low dark currents. The red boundary of the bismuth-cesium cathode lies nearer, but its thermionic emission is stronger. The reproducibility of photocathodes gets more complicated through the necessary more accurate dosage of the alkaline metals than for photoelectric cells. For the determination of the sensitivity increase achieved by such a device, a gaseous nebula ( $H\alpha$  with  $6563 \text{ \AA}$ ) was photographed by it. The objective had a speed of 1:1.5 and a dielectric light filter was used for the  $H\alpha$ -line ( $\Delta\lambda = 40 \text{ \AA}$ ,  $T = 60\%$ ). For comparison, the same photo was taken with the

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21492

8/020/61/137/004/015/031  
B104/B206

Contact image-amplifier for the...

identical photographic arrangement and a Kodak 103 aE panchromatic emulsion. Both photos of the NGC 7000 nebula are shown (not reproducible). An evaluation of the qualities shows that the sensitivity of the electronic telescope installation is 50 times higher than the normal photoinstallation. The gain in sensitivity is lower in the green spectral range. This is explained by the greater sensitivity of the nonsensitized photoemulsion as compared with the panchromatic emulsion. There are 2 figures and 4 Soviet-bloc references.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut im. P. K. Shternberga  
(State Astronomical Institute imeni P. K. Shternberg)

PRESENTED: November 19, 1960, by A. I. Berg, Academician

SUBMITTED: November 4, 1960

Card 2/2

YESIPOV, V.F., nauchnyy sotrudnik

We observe the sky. Nauka i zhizn' 29 no.2:107-112 F '62.  
(MIRA 15:3)

1. Moskovskiy gosudarstvennyy astronomicheskiy institut imeni  
Shternberga.

(Astronomy--Observations)

VOLKOV, I.V.; YESIPOV, V.F.; SHCHEGLOV, P.V.

Contact photography of faint objects. Astron.zhur. 39  
no.2:323-329 Mr-Ap '62. (MIRA 15:3)

1. Gosudarstvennyy astronomicheskiy institut im. P. K.  
Shternberga.  
(Astronomical photography)

YESIPOV, V.F.

Wavelengths of forbidden lines of sulfur in nebulae. Astron.-  
zhur. 39 no.2:365-367 Mr-Ap '62. (MIRA 15:3)

1. Gosudarstvennyy astronomicheskiy institut im. P. K.  
Shternberga.  
(Nebulae—Spectra) (Sulfur—Spectra)

S/055/62/039/002/012/014  
E032/E314

AUTHORS: Volkov, I.V., Yesipov, V.F. and Shcheglov, P.V.

TITLE: Contact photography of faint objects

PERIODICAL: Astronomicheskiy zhurnal, v. 39, no. 4, 1962,  
523 - 529 + 2 plates

TEXT: This is a review of the authors' work previously published in Ref. 2 (Dokl. AN SSSR, 129, 288, 1959), Ref. 3 (Dokl. AN SSSR, 157, 840, 1961), Ref. 4 (Astron. zh., 37, 586, 1960), Ref. 5 (Astron. zh., 37, 588, 1960) and Ref. 6 (Astron. zh., 38, 554, 1961). There are 7 figures.

ASSOCIATION: Gos. astronomicheskiy in-t im. P.K.  
Shternberga (State Astronomical Institute  
im. P.K. Shternberg)

SUBMITTED: June 28, 1961

Card 1/1

YESIPOV, V.F.; MOROZ, V.I.

Spectrophotometry of Venus and Mars in the 7,000-16,000 Å  
range. Astron. tsir. no.262:1-3 0'63. (MIRA 17:5)

1. Gosudarstvennyy astronomicheskiy institut imeni Shternberga.

DIBAY, E.A.; YESIPOV, V.F.

Spectrum of the cometlike object Simeiz 129. Astron.zher. 42  
no. 2:281-282 Mr-Ap '65. (MIRA 18:4)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.

**"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962920015-6**

**APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962920015-6"**

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962920015-6

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962920015-6"

YESIPOV, Vladimir Konstantinovich.

YESIPOV, Vladimir Konstantinovich, and N. V. PINCHIN. Ostrova Sovetskoi Arktiki: Novaia Zemlia, Vaigach, Kolguev, Zemlia Frantsa-Iosifa. Arkhangel'sk, Severnoe kraevoe izd-vo, 1933. 149 p. (Nauchno-populiarnaia biblioteka Krainego severa) Includes bibliographies.

DLC: G790.E8

NN

SO: LC, Soviet Geography, Part I, 1951, Uncl.

YESIPOV, V.M.

Natural regeneration of pistachio on the spurs of the  
Chatkal Range. Uzb. biol. zhur. no.5:40-44 '61.  
(MIRA 17:2)

1. Chatkal'skiy gornolesnoy zapovednik.

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962920015-6

ANDREW A. COOPER, JR., 1970

1970-1971 Report

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APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962920015-6"

After several trials, it was determined that the matrix A of the equation

$$A \cdot \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix}$$

was sufficiently reliable results of verification of the above equations were obtained on a computer in the following manner:

$$A \cdot \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix}$$

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962920015-6

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**APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962920015-6"**

I 42/01-66 EWT(d)/EWP(v)/EIP(l)/EWP(h)/EWP(1) GD/EC  
ACC-NR: AT6008921 SOURCE CODE: UR/0000/65/000/000/0046/0053

AUTHOR: Diduk, G. A.; Yesipov, V. M.

62  
61

ORG: none

TITLE: Investigation of linear-stationary-system dynamics not requiring the  
setting up of the characteristic polynomial B+1

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomaticheskiye i  
teleinformatsionnyye sistemy (Automatic and teleinformation systems). Moscow,  
Izd-vo Nauka, 1965, 46-53

TOPIC TAGS: automatic control, automatic control system, automatic control  
theory, power system stability

ABSTRACT: V. I. Zubov suggested a new numerical solution of the stability  
problem which does not require setting up the characteristic polynomial  
("Mathematic methods of investigating automatic control systems," Sudpromgiz,  
L., 1959; "Cycling in nonlinear and controlled systems," Sudpromgiz, L., 1962).

Card 1/2

L 42201-66

ACC NR: AT6008921

This article presents a further development of the Zubov method. Let the behavior of an automatic control system be described by  $\frac{dx}{dt} = Ax$ , where A is the matrix of coefficients of the nth-order system and x is a single-column matrix with elements  $x_1, x_2, \dots, x_n$ . The characteristic determinant of the above equation is:  $|A - \lambda E| = 0$ , where E is the unit matrix. The determinant is transformed into:  $|B - \rho E| = 0$ , where  $\rho = \frac{\lambda + i}{\lambda - i}$ . The transformed matrix of coefficients B can be written in either of two forms:  $B = E + 2(A - E)^{-1}$  or  $B = E - 2(E - A)^{-1}$ . The automatic control system will be asymptotically stable if any norm of matrix B is less than unity:

The above method was tested in calculating the static stability of the Volga-GES Moscow power transmission line on a digital computer. Orig. art. has: 2 figures and 29 formulas.

SUB CODE: 13, 09 / SUBM DATE: 14Jul65 / ORIG REF: 004 / OTH REF: 001

Card 2/2 of

I 42220-66 EMT(d)/EMT(v)/EMT(k)/EMT(h)/EMT(l) GD/BC  
ACC NR: AT6008922 SOURCE CODE: UR/0000/65/000/000/0054/0061

AUTHOR: Diduk, G. A.; Yesipov, V. M.

ORG: none

61  
B+1

TITLE: Methods for approaching boundary and construction of stability regions of multidimensional automatic systems on a digital computer

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomaticheskiye i teleinformatsionnyye sistemy (Automatic and teleinformation systems). Moscow, Izd-vo Nauka, 1965, 54-61

TOPIC TAGS: automatic control, automatic control system, automatic control theory

ABSTRACT: Some methods of directional search are discussed which can be used for constructing the stability region in a permissible parameter space and for isolating a subregion having specified qualitative characteristics. The maximum eigen-value  $| \rho_{\max} |$  of matrix B is recommended as a quantitative measure of

Card 1/2

L42220-66  
ACC NR: AT6008922

stability; the matrix B is given by:  $B = E - 2(E - A)^{-1}$ , where E is the unit matrix and A is the matrix of the coefficients of the automatic control system in question. Gradient methods, and particularly the steepest descent method, are recommended for minimization of the functional  $G(p_1^*, p_2^*, \dots, p_n^*)$  of the parameter space of a square. The algorithm of tracking the region boundary describes a motion along the sides via a transmission system of synchronous generators at the Volga-GES power station connected via a transmission line to an infinite-power line (the Moscow power system).  
Orig. art. has: 2 figures and 22 formulas.

SUB CODE: 13,09 / SUBM DATE: 14Jul65 / ORIG REF: 006 / OTH REF: 001

Card 2/2

L G207-G7 EMF(d)/EMF(v)/EMF(k)/EMF(h)/EMF(l)  
ACC NR: AR6023989

SOURCE CODE: UR/0372/66/000/003/G003/G003

47

46  
B

AUTHOR: Diduk, G. A.; Yesipov, V. M.

TITLE: Methods of reaching the domain boundary and constructing the stability domains of multivariate automatic systems by means of electronic digital computers

SOURCE: Ref. zh. Kibernetika, Abs. 3G25

REF SOURCE: Sb. Avtomat. i teleinform. sistemy. M.-L., Nauka, 1965, 54-61

TOPIC TAGS: control system stability, algorithm, electric generator

ABSTRACT: The article describes certain methods of directional search relating to the construction of the stability domain in the space of permissible values of parameters and to the approximate isolation from this domain of a subdomain with specified characteristics; these methods make it possible to indicate the direction of variation in parameters in such a manner as to attain this direction by the shortest path. A quantitative yardstick of stability is introduced and an analytic formulation of the problem is presented. An algorithm for the solution of the problem is provided. It is pointed out that these methods have been tested during an investigation of the system for the automatic control of the excitation of the synchronous

14.

Card 1/2 UDC: 62-501.1

L 05267-67  
ACC NR. AR6023989

generators at the Volzhskaya Hydroelectric Power Station imeni V. I. Lenin which operate, via an electrical transmission line, with busbars of infinite power (Moscow Power Grid). It is pointed out that these methods may be utilized in the search for and construction of the boundaries of the domains within which a functional meets specified requirements. 1 illustration. Bibliography of 7 titles. V. M. [Translation of abstract]

SUB CODE: 12, 09, 10/ [REDACTED]

Card

2/2 eight

ACC NR: AR6024029

SOURCE CODE: UR/0044/06/000/004/B042/B042

AUTHOR: Diduk, G. A.; Yesipov, V. M.

TITLE: A method for the investigation of the dynamics of linear stationary systems not connected with the establishment of the characteristic polynomial

SOURCE: Ref zh. Matematika, Abs. 4B204

REF SOURCE: Sb. Avtomat. i teleinform. sistemy. M.-L., Nauka, 1965, 46-53

TOPIC TAGS: control system stability, automatic control system, linear system, digital computer

ABSTRACT: The development of a method for the estimate of the stability of automatic systems whose dynamics is described by the equation  $dx/dt = Ax$  and not connected with the establishment of the characteristic polynomial has been investigated. The ideas for the estimate of stability directly from the original matrix of the coefficient A are presented. On the basis of the proposed criteria the authors solve the problem of the synthesis of multidimensional systems. The particular case of the solution of the problem where the system under investigation is subjected to more stringent requirements with regards to possible oscillations is being investigated. It is noted that the presented approach was tested on digital computers during the

Card 1/2

UDC: 517.917

ACC NR: AR6024029

calculations of the statistical stability of electrical power transmission line from the Volzhskaya GES im. V. I. Lenin to Moscow, and it proved its convenience. [ Translation of abstract ]

SUB CODE:312

Card 2/2

L 13315-66

ACCESSION NR: AP5021591

UR/0286/65/000/013/0065/0065

93

AUTHORS: Kovrov, B. V.; Kochanovskiy, N. Ya.; Veripov, Ya. I.; Tolyarenko, N. Ye.

TITLE: Machine for continuous welding of polymer films. Class 39, No. 172474

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 65

TOPIC TAGS: polymer film

ABSTRACT: This Author Certificate presents a machine for continuous welding of polymer films. The machine consists of an endless metallic band put on a driving and a driven roller, a pressing roller, a cooler, and a stripping device (see Fig. 1 on the Enclosure). To simplify the machine design and to broaden its technological possibilities, the endless metallic band is in contact with leads connected to the outputs of a transformer secondary. Orig. art. has 1 diagram.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosvarochnogo oborudovaniya (All-Union Scientific Research Institute of Electric Welding Equipment)

SUBMITTED: 15Jun64

NO REF Sov: 000

ENCL: 01

SUB CODE: OG, MR

OTHER: 000

Card 1/2

L 13315-66  
ACCESSION NR: AP5021592

ENCLOSURE 01

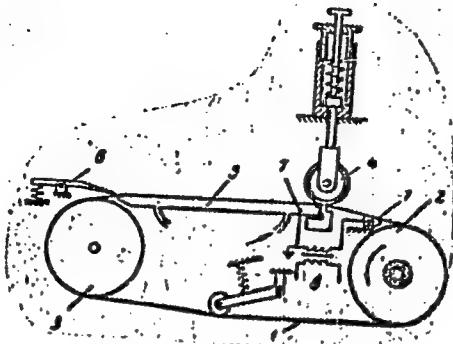


Figure 1:

1. endless metallic band
2. driven roller
3. known roller
4. pressing roller
5. cooler
6. stripping device
7. feeder rod
8. transformer

Card 2/2

DEVDOKIMOV, I.I.; ALIUKSHYEV, V.D.; ASHIKHDIN, A.K.; BAYEV, N.V.; BEGLAR'YAN,  
P.A.; BYCHKOV, I.A.; VESLOVA, Ye.T.; VYZHEKHOVSKAYA, M.F.; GURETSKIY,  
S.A.; DEMIDOV, I.M.; YESIPOV, Ye.P.; ZHUKOV, V.D.; ZELINSKIY, M.G.;  
ZOL'NIKOV, F.T.; ZOLOTOTOVA, L.I.; KIVIN, A.N.; KOMARNITSKIY, Yu.A.;  
KONSTANTINOV, A.N.; KUL'CHITSKAYA, A.K.; MAKSIMENKO, I.I.; MELENT'YEV,  
A.A.; MOROZOV, I.G.; MURZINOV, M.I.; OZEMBLOVSKIT, Ch.S.; OSTRYAKOV,  
K.I.; PANINA, A.A.; PAVLOVSKIY, V.V.; PERMINOV, A.S.; PRERSHIN, B.F.;  
PRONIN, S.F.; PSHENNYY, A.I.; POKROVSKIY, M.I.; RASPONOMAREV, Ye.A.;  
SEMIN, I.N.; SKLYAROV, Yu.N.; TIBABSHEV, A.I.; FARBEROV, Ya.D.;  
FEDOROV, G.P.; SHUL'GIN, Ya.S.; YAKIMOV, I.A.; VERINA, G.P., tekhn. red.

[Labor feats of railway workers; stories about the innovators]  
Trudovye podvigi zhelezodorozhnikov; rasskazy o novatorakh. Moskva,  
Gos.transp.zhel-dor.izd-vo, 1959. 267 p. (MIRA 12:9)  
(Railroads) (Socialist competition)

YESIPOV, Yu.L.; GAGARIN, V.I.

Temperature and concentration dependence of the specific  
gravity and viscosity of furfurole aqueous solutions. Gidroliz.  
i lesokhim.prom. 15 no.8:15-16 '62. (MIRA 15:12)

1. Kotlasskiy tsellyulozno-bumazhnyy kombinat (for Yesipov).
2. Arkhangel'skiy lesotekhnicheskiy institut (for Gagarin).  
(Furaldehyde)

Pneumonia

Pathogenesis of pneumo-sclerosis in so-called non-specific pneumonia, Arkhiv pat., 14, no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

YESIPOVA, I.K.

*Atypical growth of pulmonary epithelium in chronic non-specific pneumonia and appearance of cancer. Arkh. pat., Moskva 14 no.6:34-42 Nov-Dec 1952.*  
(CLML 23:4)

1. Of the Department of Pathological Anatomy of the Therapeutic Faculty (Head -- I. V. Davydovskiy, Active Member AMS USSR). Second Moscow State Medical Institute imeni I. V. Stalin.

YESIPOVA, I.K.

Conference of pathoanatomists and experts in forensic medicine  
of Crimea Province, arkh.pat. no.15:87-88 N-D '53. (MLRA 7:1)  
(Crimea--Medical jurisprudence) (Medical jurisprudence--  
Crimea) (Crimea--Anatomy, Pathological) (Anatomy,  
Pathological--Crimea)

ESIPOVA, I.K.

[Problems in the pathology of chronic nonspecific inflammations of the lungs] Voprosy patologii khronicheskikh nespetsificheskikh vospalenii legkikh. Moskva, Medgiz, 1956. 212 p. (MLRA 9:11)  
(LUNGS--DISEASES)

YESIPOVA, I.K.; RYZHKOV, Ye.V. (Moskva)

Changes in the lungs and thoracic cavity following pulmonectomy and  
lobectomy [with summary in English]. Arkh.pat. 19 no.12:3-13 '57.  
(MIRA 11:2)

1. Iz kafedry patologicheskoy anatomi II Moskovskogo gosudarstvennogo  
meditsinskogo instituta imeni N.I.Pirogova i prozektury bol'nitsy  
imeni Medsantrud (zav. - deystvitel'nyy chlen AMN SSSR prof. I.V.  
Davydovskiy)  
(PNEUMONECTOMY  
postop. pathol. & anat. changes)

YESIPOVA, I.K.

Pathogenesis of pneumonia arising after cardiovascular surgery  
in certain congenital heart defects [with summary in English].  
Eksper. khir 3 no.5:15-21 S-0 '58 (MIRA 11:11)

1. Iz patologoanatomiceskoy laboratorii (zav. - prof. I.K. Yesipova)  
Instituta grudnoy khirurgii (dir. - akad. A.N. Bakulev) AMN SSSR.  
(CARDIOVASCULAR DEFECTS, CONGENITAL, surg.  
postop. pneumonia, pathogen. (Rus))  
(PNEUMONIA, in inf. & child.  
postop., after cardiovasc. surg., pathogen (Rus))

YES IPOVA, I.K., prof.

"Collagen diseases" [in English] by J.Talbott, R.M.Ferrandis.  
Reviewed by I.K.Eipova. Arkh.gat. 20 no.2:86-89 '58. (MIRA 11:4)  
(COLLAGEN DISEASES) (TALBOTT, J.)  
(FERRANDIS, R.M.)

YESIPOVA, I.K., SOBOLEVA, A.D.

A case of unusual congenital cardiac defect (ventricular dextro-division with tricuspid atresia) with absence of the spleen and location of the liver of the left side [with summary in English]  
Arkh.pat. 20 no.5:72-76 '58 (MIRA 11:6)

1. Iz patologoanatomiceskoy laboratorii Instituta grudnoy khirurgii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.N. Bakulev).  
(CARDIOVASCULAR DEFECTS, CONGENITAL, case reports,

ventric. dextro-division with tricuspid atresia,  
absence of spleen & left liver location (Rus))

(LIVER, abnormalities,  
left location with ventric. dextro-division, tricuspid  
atresia & absence of spleen (Rus))

(SPLEEN, abnormalities,  
absence with ventric. dextro-division, tricuspid  
atresia & left location of liver (Rus))

YESIPOVA, I.K., prof. (Moskva)

"Pathological and histological manual" [in German] by Dr.  
Herwig Hamperl. Reviewed by I.K.Esipova. Arkh.pat. 20  
no.11:86-87 '58. (MIRA 12:8)  
(HISTOLOGY, PATHOLOGICAL) (HAMPERL, HERWIG)

YESIPOVA, I.K., prof.

"*Physiology and pathology of the Lymph circulation*" by J.  
Rusznyák, N.Földi, D.Szabó. Reviewed by I.K. Yesipova. Eksap.  
khir. 4 no.3:60-63 My-Je '59. (MIRA 12:8)  
(LYMPHATICS) (RUSZNYÁK, J.) (FÖLDI, N.) (SZABÓ, D.)

YESIPOVA, I.K.; KOGOY, T.F.; SOBOLEVA, A.D.; CHIKAREVA, G.A.

Regeneration of the mitral valve following commissurotomy to  
correct a rheumatic defect. Khirurgiia 35 no.1:105-112 Ja '59.

1. Iz Instituta grudnoy Khirurgii AMN SSSR (dir. - prof. A.N. Ba-  
kulev) i kafedry patologicheskoy anatomii (sav. - prof. I.V. Davy-  
dovskiy) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.  
(COMMISSUROTOMY,  
mitral, postop., regen., autopsy data (Rus))

YESIPOVA, I.K.; KAPULLER, L.L.; RABKIN, I.Kh.

Pulmonary barrier in mitral defects (morphological and roentgenological data on lung biopsies made during operations on the mitral valve). Klin.med. 37 no.8:36-46 Ag '59. (MIRA 12:11)

1. Iz Instituta eksperimental'noy biologii i meditsiny Sibirskego  
otdeleniya AN SSSR (dir. - prof.Ye.N.Meshalkin), kafedry rentgenolo-  
gii (zav. - prof.I.L.Tager) TSentral'nogo instituta usovershenstvo-  
vaniya vrachey i prozeektury 52-y Gorodskoy bol'nitsy (glavnnyy  
vrach P.S.Petrushko).

(MITRAL STENOSIS, pathology)

GEL'SSTEIN, G.G.; YESLIKOVA, I.K.; IVANITSKAYA, M.A.; KYANDARYAN, K.A.;  
SAVEL'YEV, V.S.; SOBOLEVA, A.D.

Congenital defect in the development of the tricuspid valve  
(Ebstein's disease). Klin. med. 38 no. 2:129-136 F '60.

(MIRA 14:1)

(TRICUSPID VALVE—ABNORMALITIES AND DEFORMITIES)

YESIPOVA, I. K., prof. (Novosibirsk)

Hypertension in the pulmonary circulation and its morphological  
reflection. Arkh. pat. no.9:3-14 '61. (MIRA 15:6)

(HYPERTENSION) (LUNGS--BLOOD SUPPLY)

YESIPOVA, I.K. (Novosibirsk)

Pathological anatomy and genesis of congenital bronchiectasis.  
Arkh.pat. no.10:24-31 '61. (MIRA 14:10)

1. Iz Instituta eksperimental'noy biologii i meditsiny (dir. -  
prof. Ye.N. Meshalkin) Sibirskogo otdeleniya Akademii nauk  
SSSR.

(BRONCHIECTASIS)

YESIPOVA, I.K., prof., red.; SMIRNOVA, Ye.A., red.; MAZUROVA, A.F.,  
tekhn. red.

[Some problems in the pathology of the lungs in the light of  
recent data on their normal structure, development and regen-  
eration] Nekotorye voprosy patologii legkikh v svete noveishikh  
danniykh ob ikh normal'nom stroenii, razvitiis, regeneratsii.  
Novosibirsk, 1962. 489 p. (MIRA 15:9)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye.  
(LUNGS--DISEASES)

YESIPOVA, I.K., prof.; LEVINA, S.I., mladshiy nauchnyy sotrudnik

Primary hypertension of the lesser circulation in children.  
Vop. okh. mat. i det. 7 no.2:44-49 F '62. (MIRA 15:3)

1. Iz otdela eksperimental'noy patologii i biologii (zav. -  
prof. I.K. Yesipova) Instituta eksperimental'noy biologii i  
meditsiny (dir. - prof. Ye.N. Meshalkin) Sibirskogo otdeleniya  
AN SSSR.

(HYPERTENSION)  
(PULMONARY CIRCULATION)

LIOZNER, L.D., prof., red.; YESIPOVA, I.K., r..

[Compensatory hypertrophy of organs in mammals and man]  
Kompensatornaia gipertrofija organov mlekopitajuushchikh  
zhivotnykh i cheloveka. M skva, Medgiz, 1963. 317 p.  
(MIRA 17:6)

YESIPOVA, I.K.

Regional hypertension and its importance in the pathogenesis of  
some diseases. Vest. AMN SSSR 19 no.12:19-28 '64.  
(MIRA 18:4)

1. Institut morfologii cheloveka AMN SSSR, Moskva.

YESIPOVA, I.K. (Moskva); NESTEROV, Ye.N. (Simferopol')

Microcystic lung, or so-called bronchiolar emphysema. Arkh. pat.  
25 no.4:32-38 '63 (MIRA 17:4)

1. Iz Instituta morfologii cheloveka AMN SSSR (dir.-chlen-kor-  
respondent AMN SSSR prof. A.P. Avtsyn) i Krymskogo meditsinskogo  
instituta ( dir. - dotsent S.I. Georgiyevskiy).

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962920015-6

YESIPOVA, I.K., prof.

International symposium on chronic nonspecific pulmonary  
diseases. Arkh. pat. 26 no.2:94-96 '64. (MIRA 17:8)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962920015-6"

YESIPOVA, I.K., prof.; NOVIKOVA, T.K.; KHARKHUTA, A.F.

Pathological anatomy and histogenesis of changes in the veins of the  
lower extremities in varix. Vop. pat. i reg. org. krov. i dykh. no.1;  
111-120 '61. (MIRA 18:7)

YESIPOVA, I.K., prof.; KAPUL'ER, L.I.; RABKIN, I.Ye.

Histological and roentgenological manifestations of hypertension in the  
pulmonary circulation in a mitral defect. Vop. pat. i reg. org. krov. i  
dykh. no.1:89-98 '61. (MIRA 18:7)

YE 704, LSS, prof. (Muñoz)

Centro de Investigación y Estudios Avanzados (CIEA) (Bogotá)  
no. 633-16 Int.

1. Tercer informe sobre el desarrollo (dir. - chile) (original) (cont.)  
RMN (CCR prof. A. M. Vargas) ANN SWR. Submitted October 8, 1963.

YESIPOVA, I.K.; ODINA, K.M. (Moskva)

Aneurysm of Valsalva's sinus in hypertension. Arkh. pat.  
no. 7:49-53 '64. (MIRA 18:7)

1. Patalogoanatomiceskoye otdeleniye (zav. - L.L.Kapuller;  
nauchnyy rukovoditel' - prof. I.K.Yesipova) 52-y Gorodskoy  
klinicheskoy bol'nitsy (glavnnyy vrach - D.Ya.Berman).

YESIPOVA, I.K., prof.; KRYUCHKOVA, G.S.

Problem of regional hypertension and their possible significance  
in the pathogenesis of some diseases. Arkh. pat. 27 no.4:83-88  
'65. (MIRA 18:5)

YESIPOVA, I.K., prof.; STEPANOVA, M.N.; ROSHAI!, L.M.

Clinicomorphological characteristics of lobar emphysema in  
newborn infants. Sov. med. 28 no.12:77-81 D '65.

(MIRA 18:12)

1. Klinika detskoy khirurgii (zav. otdeleniyem M.N. Stepanova)  
i patomorfologicheskiy otdel (zav. - prof. I.K. Yesipova)  
Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo  
instituta imeni M.F. Vladimirsckogo (direktor P.M. Leonenko).

ANDREYEV, S.V., prof.; KRAVCHENKO, A.T., prof.; NAUMENKO, V.G., kand. med. nauk;  
Prinimali uchastiye: GORDILOVA, V.V., prof.; YESIPOVA, I.K., prof.;  
SMOL'YANINOV, V.M., prof.; SOKOLOV, M.I., prof.

Dissertations on pathological and microbiological problems; current  
state and future prospects. Sov. med. 27 no.6:147-151 Je '64.  
(MIRA 18:1)

YESIPOVA, I.V.; ZAKHAR'YANTS, I.L.

Chromatographic analysis of sugars in some plants vegetating in  
winter in the southern Kyzyl Kum. Uzb.biol.zhur. 6 no.6:27-32  
'62. (MIRA 16:5)

1. Institut botaniki AN USSR.  
(KYZYL KUM—PLANTS—FROST RESISTANCE) (SUOANS)

YESIPOVA, I.V.

Aftereffect of high and low temperatures on photosynthesis and  
respiration in the cotton plant. Izv. AN Ukr. SSR. Ser. biol. nauk  
no. 1:55-61 '57. (MIRA 13:6)  
(PHOTOSYNTHESIS) (PLANTS--RESPIRATION) (COTTON)  
(PLANTS, EFFECT OF TEMPERATURE ON)

YESIPOVA, I.V.

Aftereffects of high and low temperatures in the photosynthesis of  
cotton plants. Fiziol.rast. 6 no.1:104-106 Ja-F '59.

1. Botany Institute, Uzbek S.S.R. Academy of Sciences, Tashkent.  
(Photosynthesis) (Plants, Effect of temperature on)  
(Cotton growing) (MIRA 12:2)

PONOMAREV, F.G.; YESIPOVA, L.G.; IAMTEVA, O.G.; MIZILINA, M.G.; FARBFROVA,  
B. Sh.

Unsymmetrical organic  $\alpha$ -oxides. Some conversions of  $\alpha$ -oxides.  
Trudy VGU 49:9-14 '58. (MIRA 13:5)  
(Oxides)

YESKIN, L.I., mladshiy nauchnyy sotrudnik

Ice conditions in the region of the Lazarev and Mirnyy Stations during the navigation season of 1962-1963. Inform. biul. Sov. antark. eksp. no.46:22-25 '64, (MIRA 18:I)

Distribution of icebergs to the north of the coasts of eastern Antarctica during the navigation season of 1962-1963. Ibid.: 34-36.

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

BARUZDINA, R.S.; YESIPOVA, L.N.; TAYTS, Ye.M.

*Young's modulus of coke as dependent on the carbonization temperature. Dokl. AN SSSR 156 no. 4:935-936 Je '64.  
(MIRA 17:6)*

1. Predstavleno akademikom P.A.Rebinderom.

YESIPOVA, M. I.; ZVEREV, M.S.

Observing the brightness of the rocket carrier of the third  
artificial earth satellite at the Pulkovo Observatory. Biul.  
sta.opt.nabl.isk.sput.Zem. no.4:12-16 '59.  
(MIRA 13:6)

1. Glavnaya (Pulkovskaya) astronomicheskaya observatoriya  
AN SSSR.

(Artificial satellites--Tracking)

3.1410

S/035/61/000/004/015/058  
A001/A101

✓B

AUTHOR: Yesipova, M. I.

TITLE: On calculating ephemeris of visible direct ascensions of stars included in time service programs

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 4, 1961, 17, abstract 4A208 ("Tr. 14-y Astrometr. konferentsii SSSR, 1958". Moscow-Leningrad, AN SSSR, 1960, 335-336. Discus. 336, Engl. summary)

TEXT: The author notes successful experience of the Soviet (since 1956) and foreign (since 1957) time services in using ephemeris of visible direct ascensions of time service program stars calculated by the NTA (ITA), AS USSR, since 1955. The author proposes to continue ephemeris calculation even after completion of studies according to the IGY program and to revise in this connection the list of the stars.

G. T.

[Abstractor's note: Complete translation]

Card 1/1

YESIPOVA, M.I.

FMASZ I BOMB INFORMATION 801/5721

Vsesoyuznaya astrofizicheskaya konferentsiya.

Trudy 14-y Astrofizicheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g.  
(Transactions of the 14th Astronomical Conference of the USSR, Held in Kiyev  
27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 440 p. Errata slip inserted.  
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astrofizicheskaya observatoriya  
(Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of  
Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zemaryeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly  
those interested in astronomical research.

COVERAGE: This publication presents the Transactions of the 14th Astronomical  
Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports  
and 55 scientific papers presented at the plenary meeting of the Conference

Card 2/16

Transactions of the 14th Astrometrical (Cont.)

SOV/5721

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astrometrical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskij, A. B. Onegina, and Kh. I. Potter.

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Vasil'yev, V. M., and D. D. Polozhentsev. Application of Punch-Card Machines for Calculations Made by the Time Service at the Main Astronomical Observatory 328

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BELOV, N.S.; BIRYUKOV, I.V.; VERBLYUDOV, N.N.; GORBUNOVA, M.N.; YESIPOVA, M.M.;  
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CHUSOVITINA, Ye.I.; ANGEL'SKIY, N., tekhn.red.

[The Kuznetsk Basin in the sixth five-year plan] Kuzbass v shestoi  
piatiletke. [Kemerovo] Kemerovskoe knizhnoe izd-vo, 1956. 125 p.  
(MIRA 10:12)  
(Kuznetsk Basin)

TUMANYAN, V.G.; YESIPOVA, N.G.; ANDREYEVA, N.S.

RNA, carrier and code of hereditary information. Biophysika 8  
no.1:124-125 '63. (MIR 17:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

YES IPOVA, N.G.

Mature of some hydrogen bonds in collagen [with summary in English].  
Biofizika 2 no.4:461-464 '57. (MLRA 10:9)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta  
im. M.V.Lomonosova  
(COLLAGEN)

YESIPOVA, N.G.

70-4-4/16

AUTHORS: Andreyeva, N.S., Yesipova, N.G. and Millionova, M.I.

TITLE: On Peculiarities in the Structure of Collagen. (Ob  
osobennostyakh stroyeniya kollagena).

PERIODICAL: Kristallografiya, 1957, Vol.2, Nr 4, pp.470-474 (USSR).

ABSTRACT: Outline account - fuller details in "Biofizika", Vol.2,  
Nos. 3, 4 and 5 (1957). The dependence of the quantity of  
ordered phase in different collagens on various factors was  
investigated to elucidate the principles conditioning the  
presence of specific chain configurations in separate parts  
of the molecules in the protein groups of collagen. A  
major factor was found to be the accumulation of iminoacids  
and glycine in separate parts of the molecular chain. Other  
aminoacids may be present to a smaller extent. Water stabi-  
lises the particular chain configuration being distributed  
in the ordered parts near the chain skeletons (3 Å away) and  
linked by H bonds. Photographs were taken with Cu radiation  
monochromatised by reflection from pentaerithritol and the  
peak heights and integrated intensities of the rings at 2.9  
and 11.5 Å were measured. Specimens used were collagen RTT,  
procollagen prepared by Orekhovich's method, collagen from  
pike skin, collagen from cod skin and spongin. These were  
examined in the disordered state and photographs were also

Card 1/2

YESIPOVA, N.G., ANDREYEVA, N.S., GATOVSKAYA, T.V.

Role of water in the structure of collagen [with summary in English].  
Biofizika 3 no.5:529-540 '58 (MIRA 11:10)

1. Fiziko-khimicheskiy institut im. Karpova, Moskva, i Fizicheskiy  
fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.  
(COLLAGEN,

water in cytol. collagen structure, x-ray diffraction  
(Rus))

(WATER,  
in collagen cytostructure, x-ray diffraction (Rus))

YESIPOVA, N.G.; LI PAN-TUN [Li P'ang-t'ung]; ANDREYeva, N.S.; KOZLOV,  
P.V.

Investigation of the spherulite structure of polymers. Part 4:  
X-ray study of macrospherulites of polyethylene sebacate. Vysokom.  
soed. 2 no.7:1109-1118 J1 '60. (MIRA 13:8)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(Sebadic acid) (Spherulites-- Spectra)

YESIPOVA, N.G., TOPCHIYEVA, I.N.

Structure of optically active polyamides based on trans-cyclopropanedicarboxylic acid and  $\beta$ -propylenediamine. Vysokom. soed. 8 no. 1st76-181 Ja '66 (MIRA 1911)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.  
Submitted March 9, 1965.

IL'INA, K.A...Prinimali uchastiye: BUSLAYEV, V.G., starshiy inzhener;  
KOZLOV, V.F., ispoln. chyazannosti inzhenera; YESIPOVA, O.V.,  
starshiy tekhnik; BRODYANSKAYA, Ye.A., tekhnik. YAKUBOV,  
M.O., prof., doktor tekhn.nauk, red.; ALEKSEYEVA, T.V.,  
tekhn.red.

[Standard technological processes in the manufacture of medium  
size machine parts; instructional materials] Tipovye tekhnolo-  
gicheskie protsessy obrabotki korpusnykh detalei srednikh  
razmerov; rukovodящie materialy. Pod red. M.O. Iakubova.  
Moskva, Tsentr.biuro tekhn.informatsii, 1958. 218 p.

(MIRA 12:7)

1. Moscow. Ekperimental'nyy nauchno-issledovatel'skiy institut  
metallorezhushchikh stankov.  
(Machinery industry)

L vyi/o-07 EWT(i) RM/UW  
ACC NR: AP7002321

SOURCE CODE: UR/0362/66/002/001/0380/0393

AUTHOR: Kondrat'yov, K. Ya.; Nikol'skiy, G. A.; Yesipova, Ye. N.

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ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TITLE: Balloon investigations of radiation fluxes in the free atmosphere

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 4, 1966, 380-393

TOPIC TAGS: solar radiation, meteorology

ABSTRACT: Data from four ascents of a group of actinometric instruments on high-level balloons have been used for the first time in an analysis of the character of the vertical profiles of the radiation balance and all its components (including fluxes of scattered radiation and long-wave radiation) in daytime at heights to 25-32 km. The method is described briefly and data are given illustrating the relation between the different components of the radiation balance. The authors discuss the results of computations of the radiation changes of temperature, revealing a considerable mutual compensation of the radiant fluxes of heat caused by short-wave and long-wave radiation. Data from measurements of direct solar radiation were used in computations of aerosol attenuation and analysis of the vertical profile of the aerosol component of the atmosphere. The following are analyzed separately: direct solar radiation, total radiation, scattered radiation, reflected radiation,

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albedo, fluxes of long-wave radiation and the radiation balance, radiant heat flux, attenuation of direct solar radiation by an aerosol. For example, it was found that in summer the value of the aerosol component of attenuation of direct solar radiation was greater by a factor of approximately two than in the autumn and the atmosphere is more stratified. In autumn the principal maxima in the distribution of an aerosol are observed at heights of 2-3 and 15-18 km. In summer the maximum attenuation is at 1-2, 7-8, 10-12 and 18 km. In almost all the ascents above 24 km there was an appreciable increase of the aerosol concentration. Orig. art. has: 14 figures.  
[JPRS: 36,285]

SUB CODE: 04 / SUBM DATE: 19Oct65 / ORIG REF: 003 / OTH REF: 005

Card 2/2 nst

VASILENKO, P.M., akademik; VASILENKO, I.I., kand.tekhn. nauk;  
YESIPOVICH, M.N., red.

[Automation of the processes of agricultural production]  
Avtomatizatsiya protsessov sel'skokhoziaistvennogo pro-  
izvodstva. Moskva, Kolos, 1964. 383 p. (MIRA 18:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk  
imeni V.I.Lenina (for Vasilenko, P.M.).

SLAVIN, Radiy Mikhaylovich; YESIPOVICH, N.M., red.; KOSOROTOV, B.V.,  
red.; TRUKHINA, O.N., tekhn. red.

[Automation on livestock farms] Avtomatizatsiia na zhivotno-  
vodcheskikh fermakh. Moskva, Sel'khozizdat, 1963. 342 p.  
(MIRA 16:5)

(Stock and stockbreeding) (Automation)

ZUL', Nikolay Mikhaylovich, kand. tekhn. nauk; FOYARKOV, Kirill  
Mikhaylovich, kand. tekhn. nauk; YESIPOVICH, N.M., red.;  
NIKITINA, V.M., red.

[Automation of rural electric power supply] Avtomatizatsiya  
sel'skogo elektrosnabzheniya. Moskva, Kолос, 1965. 287 p.  
(MIRA 18:3)

CHISTOZVONOV, S.B.; KHANIN, N.S., kand.tekhn.nauk; YESIPOVICH, R.A.,  
nauchnyy red.; VIGDOROVICH, M.B., red.; KOGAN, F.L., tekhh.red.

[Modern foreign motor-vehicle diesel engines; survey] Sovremennye  
zarubezhnye avtomobil'nye dizeli; otsn. Moskva, 1963. 171 p.  
(Moscow. TSentral'nyi institut nauchno-tehnicheskoi informatsii  
po avtomatizatsii i mashinostroeniu. Seria III: Novye mashiny,  
oborudovanie i sredstva avtomatizatsii, no.66). (MIRA 16:12)

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962920015-6

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962920015-6"

AUTHORS: Yermakov, S. S., Yesipovich, Ye. M. (Moscow) 103-19-5-2/14

TITLE: A Method of Forming Transmission Functions of Sampled-Data Control Systems With Extrapolating Devices (Metodika sostavleniya peredatochnykh funktsiy impul'snykh sistem regulirovaniya, soderzhashchikh ekstrapoliruyushchiye ustroystva)

PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 5,  
pp. 401-407 (USSR)

ABSTRACT: A method of forming the transmission functions of extrapolating devices is given here. It permits to use the existing theory of impulse control for an analysis and synthesis of systems containing these devices. The extrapolating devices serve for transforming the discreet data into continuous (or continuous in places) ones. The following is shown: 1) In the investigation of the dynamics of the control system with an impulse element, connected in series, with an infinitely small reciprocal of the pulse duty factor (skvazhnost') ( $\gamma \rightarrow 0$ ) and an extrapolating device these terms can be replaced by an impulse element

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A Method of Forming Transmission Functions of  
Sampled-Data Control Systems With Extrapolating Devices

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which forms pulses of a rectangular shape and  $\gamma = 1$ , and by the linear (continuous) part of the extrapolating device which is also connected in series. 2) The transmission function of the linear part of the extrapolating device can be found by the application of the usual (and not discreet) Laplace transformation. This transmission function only expresses the connection between the representation of the input and the output quantity in the case of a certain shape of the input action - in the case of a continuity of the rectangular pulses with  $\gamma = 1$ . Therefore such a function can be called a conditional transmission function. 3) On the basis of the data given here it can be stated that the method of the conditional transmission functions (in the sense here mentioned) is applicable when the input action represents a continuity of impulses of any previously known shape.

There are 4 figures, 1 table and 4 references, all of which are Soviet.

SUBMITTED:  
AVAILABLE:  
Card 2/2

November 1, 1957  
Library of Congress

1. Mathematical computers--Operation    2. Mathematical computers--  
Control

*YESIPOVICH, YE. M.*

## PHASE I BOOK EXHIBITION

207/241

Exhibition No. 23

Title: I priimenija diskretnykh sistem v reshetnykh avtomaticheskikh sistemakh

(Theory and Application of Discrete Automatic Systems) Communications of the Conference, Moscow, 15 Sept., 1970. 572 p. 5,000 copies printed.

Sponsoring Agency: Akademiya Nauk SSSR. Reshetnyy komitet SSSR po avtomaticheskym upravleniyam. Institut avtomatyki i telemekhaniki.

Editorial Board: M.A. Gavrilev, Doctor of Technical Sciences, Inst. Polimernye, A.A. Lerner, Doctor of Technical Sciences, Inst. Polimernye (Secretary), G.S. Popov, Doctor of Technical Sciences, A.A. Petukhov, Doctor of Technical Sciences, A.V. Savchenko, Candidate of Technical Sciences, and Iu.I. Teplov, Doctor of Technical Sciences, Head, Inst. Teplomekhanika, RAS, Ed. by Publisher House Klin. Podzemelskii Tech. Ed. Materials.

PURPOSE: These transactions are intended for the members of the conference and other specialists in automatic control.

CONFERENCE: The Conference on Theory and Application of Discrete Automatic Systems took place in Moscow from September 22 to 26, 1970. It was the first conference devoted to discussions of the present status of the theory and techniques of discrete automatic systems and to planning for future development.

In the first group of optimization, matching circuits have been divided into four groups of relay control systems, in particular plant, by control systems, in which a minimum of relay control processes as well as quick response. The second group of papers is devoted to the analysis and synthesis of systems with the help of mathematical methods. In the study of reliability of pulse systems, in particular problems of calculating limits of reliability, problems of calculating probabilities of reliability, problems of calculating reliability bounds based on the initial group of papers, Jan. 1970, were considered. Problems of solving problems of reliability, reliability and reliability of reliability rating, etc. The third group of papers is devoted to the problem of programming, i.e., conversion of analog signals into digital signals. The fourth group of papers is devoted to the problem of analog-digital conversion and vice versa with a problem of programming. Specialized technical converters have been included in this group. The fourth group of papers includes theoretical elements and certain practical applications of the simplest types of self-exciting systems, optimizing control systems, which are divided as relay, pulse and digital devices. Here are also found papers describing various methods of investigating steady state oscillations in optimal control systems, realization of output effects of control factors on the process of automatic control, and analysis of existing oscillating control systems. Some of the more interesting communications and publications made available for discussion at the various conferences paper have also been included in these transactions. Presentations and references accompany most of the papers.

Pashkin, I.V. (Report). Self-Oscillations in Systems With Pulse-Width Modulation

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The author presents conditions indispensable for the existence of periodical self-oscillations having a period which is a multiple of two repetition intervals of the pulse component. These conditions are represented by the frequency-selective characteristics of the continuous part of the system. If that part possesses filter properties, then the equations determining conditions for the existence of free oscillations become simplified. A general method of determining the parameters of self-oscillations is also indicated. The author draws up methods for the case of self-oscillation with respect to two and four dimensions. From these numbers one can directly determine conditions for the existence of such free oscillations and their parameters. There are 8 references, all Soviet.

Zastroykin, V. (Report). Pulse and Continuous Systems Containing Extra-Pulse Oscillations

The author analyzes systems in which a continuous actuating stimulus on the regulated object is obtained from discrete values of certain variable quantity. The conversion of discrete data into those which are continuous or piecewise continuous is accomplished either inside of a closed circuit (a pulse system) or at its input (a continuous system). For the investigation of these systems, the author introduces special conditional transfer functions, the form of which for the case of extrapolative device depends on the character of the input stimuli. There are 4 references, all Soviet, including 1 translation.

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16.8000 (also 1253, 1327)

AUTHOR: Yesipovich, Ye.M.

TITLE: Discrete and continuous systems with extrapolating devices

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1961, 34, abstract 5 V289 (V sb. Teoriya i primeneniye diskretn. avtomat. sistem, M., AN SSSR, 1960, 151-155)

TEXT: Using the example of a 3-point extrapolator the method of obtaining the so-called conditional transfer function of the extrapolator  $W_e(p)$  is explained. This function expresses the Laplace representation of the relationship between the output quantity  $f_e(t)$  and the discrete values of the input quantity  $f_n = f(nT_p)$  of the extrapolator for the case when  $f_n$  is a stepped function. It is shown further that the continuous spectral density  $S_{cont}(iv)(0 \leq \omega \leq 1/2 T_p)$  at the output of the extrapolating device is related to

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